Installation Instructions
IFPS14.2 (Full Install)
August 15, 2003

Installation Instructions for IFPS14.2

Table of Contents:

PART 0: Prerequisite

Part 0 represents the portion of the IFPS14.2 install that can be done/verified prior to actually starting the install. Please read over this section and complete the items listed below. You should not continue with the IFPS14.2 install until all of these items have been satisfied.

Warning: Changes in Formatting the localConfig.py File (Follow this link http://www.nws.noaa.gov/mdl/icwf/IFPS14.2Full/localConfig.html for complete details)

1. **AWIPS Version Installed**
   a. AWIPS **OB1 or OB2 and IFPS13.x** MUST be installed.
      (1) To determine AWIPS release currently on your system, type the following command:
      `> cat /awips/Release_ID`
      If the result does not match at least OB1, please install OB1 before continuing with the IFPS14.2 install.
      (2) To determine the IFPS release currently on your system, type the following command on ds1:
      `>cat /awips/IFPS_Release_ID`
      If you are not on ds1, then type the command below most appropriate for your system:
      - `>remsh ds1 "cat /awips/IFPS_Release_ID"`
      - `>rsh ds1 "cat /awips/IFPS_Release_ID"`

      If the result does not match at least IFPS13.0, please install IFPS13.0, before continuing with the IFPS14.2 install.

- **Backup Copies of Important IFPS Files**
  - See Attachment 1 for the list of data files, scripts, and database tables that are replaced or merged during the IFPS14.2 upgrade.
  - Key files that MDL suggests should be backed up prior to starting the IFPS14 upgrade appear below. Please note that these files should be owned by user ifps, not root or awipsusr.
    - Data files and Scripts
      - `/awips/adapt/ifps/Xdefaults/Igr_ccc`
      - `/awips/adapt/ifps/localbin/ifps-ccc.env`
      - `/awips/adapt/ifps/data/mask.00`
      - `/awips/adapt/ifps/data/mask.12`
      - `/awips/adapt/ifps/data/template_fwm.ccc`
    - ifps_ccc Database Tables
      - `None`

Some important IFPS14 information **for IFPS Focal Points** is available at the following web site:

a. http://www-md.fsl.noaa.gov/IFPS/14/IFPS14focal.html

PART 1: Pre-install Preparations

Part 1 represents the steps necessary to prepare the system for the IFPS14.2 install. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that the Part 1 and Part 2 will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS14.2 upgrade.

Some important IFPS14 information **for IFPS Focal Points** is available at the following web site:

a. http://www-md.fsl.noaa.gov/IFPS/14/IFPS14focal.html

Please follow the directions listed below.

1. **Look for Addenda to the IFPS14.2 Install Instructions**
   a. ***Before starting with the IFPS14.2 install, please review any updated Install Instructions and/or Lessons Learned at the following URL:***

http://www.nws.noaa.gov/mdl/icwf/IFPS14.2Full/IFPS14.2Full.html#LessonsLearned

The IFPS14.2 web page includes a number of other hypertext links including a link to the IFPS14 User's Guide.

2. **IFPS14.2 Install Space**
   a. The chart in Attachment 2 indicates the amount of space needed in each of the partitions for the specified host. If there is not enough space available, the install will stop in order to allow the IFPS-FP to free up space in the specified partition. The install can then be re-run. To save time during the installation, this chart may be used as a pre-install check of available space. All sizes are in kb.

PART 2: Install IFPS14.2

Part 2 represents the steps necessary to install IFPS14.2. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that this part will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS14.2 install.

Some important IFPS14 information **for IFPS Focal Points** is available at the following web site:

a. http://www-md.fsl.noaa.gov/IFPS/14/IFPS14focal.html

Please follow the directions listed below.

1. Notify the NCF

a. Before starting the IFPS14.2 installation, please open a trouble ticket with the NCF. The NCF will, in turn, alert MDL that you are about to begin your IFPS installation. Should you require any assistance with your installation, a trouble ticket will already be opened.

b. ***If you have any problems with your IFPS installation or have questions about anything related to the installation process during normal business hours, then please call the Site Support Team (SST) at (301) 713-9362 x 325,326, or 327.***

c. If you encounter any operational problems with IFPS, after successfully installing, then, as usual, contact the NCF at (301) 713 -9344.

2. Ensure System is running

a. Log into a workstation as root, then rlogin to the ds

1. `>rlogin ds1`

b. Use the following command to verify that Informix is up and running correctly.

`>onstat -g dri`

1. If you get a response this means that the Informix database is running.
2. Using the output from the command above, verify that under the ***Data Replication*** heading, the type is primary and the state is on as indicated below.

Informix dynamic server 7.31.UC2 – On-Line (Prim)–up 012319 – 168592 kbytes

Data Replication:

Type	***state***	***paired serve***	***const dr ckpt***	***id/pg***
primary	***on***	***ONLINE_REP***	***126615/14***	***28***

DR interval 30
DR interval 30
DR interval 30
DR auto 0
DRLOST FOUND /opt/informix/etc/.dr.lostfound

NOTE: If (1) or (2) above are not true, you have a problem and need to start the Informix database before you proceed. Call the Site Support Team (SST) for assistance.

c. Verify that the DS and AS are not currently failed over. You will not be able to complete this install if either the DS or the AS is failed over.

d. Verify that the site is not in service backup mode, nor are the lx1 and lx2 machines in failover mode.

3. Install IFPS14

a. **IMPORTANT (Don't miss this step):** If someone at your WFO has not been contacted about updating the localConfig.py (http://www.nws.noaa.gov/mdl/icwf/IFPS14.2Full/localConfig.html) file for IFPS13, please contact the CST for assistance. It is extremely important that this configuration file be updated prior to the installation of IFPS14.2. If the syntax is not **exactly correct** within this file, **the IFPS14.2 install will fail.**

b. **NOTE:** When a site installs IFPS14, the server will find databases that do not conform to the new standard and, consequently, get rid of them. The server will then create the new ones.

This brings up the following two issues for your consideration:

1. The bad databases are moved to the /awips/GFESuite/BAD directory. That will take up considerable disk space. The site should go into this directory and delete all files. An example of the filenames that will be found in this directory is: BADDB-yyyymmdd_hhmm-BOU_GRID__Fcst_00000000_0000.cdf, where the file extension may vary, the yyyymmdd_hhmm is the time that

the file was moved to this location, and the BOU_GRID__Fcst_00000000_0000 is the database identifier. Failure to remove these files could consume up to 4 GB of disk space!

2. The install procedure only saves the contents of the Fcst database and deletes the other databases. If sites have precious data in other databases, such as GeoWeights or local climatological databases, then the site needs to use ifpnetCDF, before the install, to preserve a copy of the data, and then use iscMosaic, after the install to restore the data. Additionally, sites may opt for additional security and create a manual copy of the Fcst database using ifpnetCDF.

c. **Important! Failure to perform this step will result in the loss of your Fcst MinT grids.** Determine if you have overridden the MinTTC baseline definition in your localConfig.py. If you have, you will typically find a statement that looks similar to this in your localConfig.py file:

serverConfig.MinTTC = localTC(19*HOUR, 24*HOUR, 13*HOUR, 0)

although you might have used an alternate form similar to this:

MinTTC = localTC(19*HOUR, 24*HOUR, 13*HOUR, 0)
...
parms = [(.....), (MinT, MinTTC), (.....)]

1. If you have overridden the MinTTC definition in localConfig.py:
There are no steps needed to preserve the MinT grids when you install IFPS14; however, after you have upgraded, it is recommended that you remove your definition of MinTTC from localConfig.py so you are compatible with ISC, NDFD, and other product formatters.

2. If you have not overridden the MinTTC definition in localConfig.py:
a) BEFORE you install IFPS14, you will want to change the definition of MinTTC to match that used in IFPS14. The database backup/restore program insists that the time constraints match on the backup and restore.

b) Edit your localConfig.py file and fairly close to the top (after the import set of lines), insert the following:

serverConfig.MinTTC = localTC(19*HOUR, 24*HOUR, 14*HOUR, 0)

c) Restart your ifpServer. Your MinT grids will be time shifted to match the above time constraint.

d. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.

e. Verify the site is not in service backup mode, nor are the lx1 and lx2 boxes in service failover mode.

f. Ensure the ifpServer and ifpServerWatcher processes are running. You can use this command to make this determination:

> ps -fu ifps

If either is not running perform these two commands, substituting your site id for the 'ccc':

> cd /awips/adapt/ifps/bin/linux

> start_LX_ifps_servers ccc

e. Install the IFPS14.

1. Insert the CD labeled "IFPS14" into the CD drive on ds1
2. Log into a workstation as **root**, then rlogin into the ds

>rlogin ds1

3. Start two windows. One to run the commands and the other to stop the script files.
4. In the first window, mount the CD drive

For K class server:

```
>mount  /dev/dsk/c3t2d0 /cdrom
```

For D class server:

```
>mount  /dev/dsk/c1t2d0 /cdrom
```

5. In the first window, start the script to log install progress

>script -a /home/ncfuser/IFPS14install.out

```
>cd /cdrom
```

6. In the first window, run "installIFPS14". Remember this command needs to be executed as **root** on the **ds1**. This script needs to run to completion (i.e., the command line prompt returns). Do not <cntrl>C out of this script unless you are directed to do so by NCF or MDL personnel.

>./installIFPS14

i. There are a couple of error checks that may appear during the IFPS14.2 install. These error checks will stop the install until the problem is resolved.

a. The first check verifies that there is enough space to unload the ifps_ccc database. If there is not enough space, then the install will pause while this area is cleaned up. Once the directory has been cleaned, you will be able to select 'y' to continue with the

install.

b. The second check verifies that no sessions are connected to the ifps_ccc and wwa_ccc databases. If this check determines that there is a session connected to this database, it will provide you with the necessary information to resolve this issue. Once the sessions have been removed, you will be able to continue with the install by selecting 'y'.

7. When the command line prompt is returned, the install script has finished.

   At that time, bring up the second window and stop the script command.
   >ps -ef | grep IFPS14install
   >kill <process id>
   where process id is shown in the 'ps -ef' command

8. In the second window, review the IFPS14 install log
   >cd /home/ncfuser

   >more IFPS14install.out
   Look for any errors in the log file. If you have a questions about anything related to the install process, call the Site Support Team (SST) for assistance. Also take a look at the Lessons Learned section of the IFPS14 web page at:

   http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

   Once there, click on "14.2 Full" link in the IFPS14 row of the matrix to view more information about IFPS14.

   When the install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

9. Unmount & remove the IFPS14 CD
   > cd
   > umount /cdrom

10. Restart the ifp servers.

    Log into **lx1** as user **ifps**. Perform these two commands, substituting your site id for the 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc
```

Log out of lx1.

PART 3: Post-Install Instructions for IFPS14.2

Part 3 represents the steps necessary to verify the IFPS14.2 install. These steps are not comprehensive but just enough to verify that the basic system functionality is up and running. This part of the install instructions includes a list of items that MDL/FSL recommend to complete immediately after the IFPS14.2 install. This list is meant to focus the IFPS Focal Point on particular pieces of the software that were changed during the IFPS14.2 install. Although MDL/FSL attempts to not overwrite the local site configuration of IFPS, sometimes it is not possible. This part of the install instructions should lead the IFPS Focal Point to verify that site configuration is not lost. This section will closely parallel the information listed in Part 0. If the site performed the necessary backups of these data, then the verification and any necessary updates should go smoothly at this time. The last part of this section includes a list of items that will need to be configured, if the site chooses to do so at a later time.

Please follow the directions listed below.

1. Verify System Functionality

a. Verify that the IFPS servers started correctly

(1) On lx1 as ifps

i. Check for the IFPS Servers (ifpServer, ifpServerWatcher, sliderParameterServer, and sirssrv)

```
>ps -ef | grep ifps
```

ii. If any of the above processes are not listed, then start the server(s)

```
>cd /awips/adapt/ifps/bin/linux
>./start_LX_ifps_servers ccc
```

where ccc is the 3-letter site identification

b. Verify that the IFPS cron files are running

(1) On ds1 as ifps

i. Check for the IFPS cron

```
>crontab -l
```

ii. If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps-ccc.crontab
```

where ccc is the 3-letter site identification

(2) On lx1 as ifps

i. Check for the IFPS cron

```
>crontab -l
```

ii. If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps_mosingest_crontab.sh
```

(3) On lx2 as ifps

i. Check for the IFPS cron

```
>crontab -l
```

ii. If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps_diskmirror.crontab
```

c. Edit your localConfig.py and remove the "serverConfig MinTTC" line you previously added and restart the ifpServer. In order to stop and restart the ifpServer perform these steps.

On lx1 as user ifps:

```
> cd /awips/adapt/ifps/bin/linux
> ./stop_LX_ifps_servers ccc
```

where ccc is the 3-letter site identification.

```
>./start_LX_ifps_servers ccc
```

where ccc is the 3-letter site identification

2. **New Functionality that could be Configured within IFPS**

a. Please refer to Section #1 of the IFPS14.2 Release Notes for more details of new functionality added within IFPS14.2. The URL is:

http://www.nws.noaa.gov/icwf/IFPSBuilds

Once there, click on "14.2 Full" in the IFPS14 row of the matrix, then go to Release Notes and Section 1 ("New Functionality")

3. Export Configuration Data

a. After successfully **installing**, **testing**, and **configuring** IFPS14.2, it is important that you export your site's configuration data to the NDFD central server. Having your site's latest configuration data available on the NDFD central server will greatly facilitate service backup should your site require it. For more information related to exporting your site's configuration data, please visit the following references in the IFPS14 Users Guide:

http://www.nws.noaa.gov/mdl/icwf/user_guide_ifps14/func/svc_backup_func.htm#Initiating

http://www.nws.noaa.gov/mdl/icwf/user_guide_ifps14/tech/svc_backup_tech.htm#ConfigDataExp

PART 4: Deinstall Instructions for IFPS14.2

Part 4 represents the steps necessary to deinstall (if necessary) IFPS14.2. The deinstall is a radical step and should be considered only as a last resort to get the site back up and running with IFPS. As a result, any deinstall of IFPS14.2 should be carefully coordinated between the site, regional headquarters, Office of Science and Technology, MDL, FSL, and OCCWS.

NOTE: Any configuration completed since the IFPS14.2 install will be lost upon completing the deinstall. The system will be returned to the state just prior to the IFPS14.2 install. All forecast digital data will be lost and will need to be recreated.

Please follow the directions listed below.

1. **Notify the NCF**
   - **a.** Before starting the IFPS14.2 de-install, please open a trouble ticket with the NCF. This will alert MDL that you are about to begin your IFPS de-install. Should you require any assistance with the de-install, a trouble ticket will already be opened.

2. **Restore IFPS to the previous build (13.x)**
   - a. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
   - b. Verify that /awips/IFPS_Release_ID indicates that the current version of IFPS is 14.2. If it is not, stop. You cannot de-install IFPS14.2.
   - c. Deinstall IFPS14.2.
     - (1) **Save the Forecast data.** During the deinstall of IFPS14.2, the forecast grids will be lost. In order to prevent this data loss the grids must be manually saved off and then restored when the installation has finished. The de-installation script will attempt to perform this save/restore function as well, but it is likely to fail. If it should succeed, performing these same steps manually will do no harm.
       - i. Log into **lx1** as user **ifps**. Check to see that the ifpsServer and ifpServerWatcher processes are running by typing this command:

```
> ps -fu ifps
```

If either process is not running, enter these commands, substituting your site id for 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc
```

If the processes are running proceed to step ii.

ii. `> cd /awips/GFESuite/bin`

iii. Substitute your site id (in upper case) for 'CCC' and note that there are two (2) underscores following 'GRID':

```
> ./ifpnetCDF -o   /awips/GFESuite/SaveFcstDB.cdf \
-h lx1 -r 98000000 -d CCC_GRID__Fcst_00000000_0000
```

iv. This will produce a file named SaveFcstDB.cdf in your /awips/GFESuite directory. Verify the file is there, and then exit lx1.

(2) If not already inserted, load the CD labeled "IFPS14" into the CD drive on ds1

(3) Log into a workstation as root, then rlogin into the ds1
```
>rlogin ds1
```

(4) Start two windows. One to run the commands and the other to stop the script files.

(5) In the first window, if not already mounted, mount the CD drive
For K class server:
```
>mount  /dev/dsk/c3t2d0  /cdrom
```
For D class server:
```
>mount /dev/dsk/c1t2d0 /cdrom
>cd /cdrom
```

(6) In the first window, start the script to log install progress
```
>script -a /home/ncfuser/IFPS14deinstall.out
```

(7) In the first window, run the installIFPS14 script with a deinstall option (the script may take a second or two, before it sends information to the terminal screen)
```
>./installIFPS14 -d deinstall
```
The deinstallation will now start. Note that there will be several periods of 5 min or so when no output messages will be generated. This is normal – the script is still working.

(8) When the first window returns to the command prompt, the deinstallation has finished. In the second window, stop install log using these commands:
```
>ps -ef | grep IFPS14deinstall
>kill <process id>
```
where process id is shown in the 'ps -ef' command

(9) In the second window, review the deinstall IFPS14 log
```
>cd /home/ncfuser
>more IFPS14deinstall.out
```
Look for any errors in the log file. If you have questions about anything related to the de-install process, call the Site Support

Team (SST) for assistance. When the de-install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

(10) **Restore the forecast data.**

i. Log into **lx1** as user **ifps**. Ensure the ifpServer and ifpServerWatcher processes are running by typing.
> ps -fu ifps

If either process is not running perform these two commands, substituting your site id for the 'ccc':
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc

ii. > cd /awips/GFESuite/bin

Substitue your site's id (upper case) for the 'CCC' and note that there are two (2) underscores in the following command:

```
> ./iscMosaic -h lx1 -r 98000000 -d \
CCC_GRID__Fcst_00000000_0000 -z -n -f \
/awips/GFESuite/SaveFcstDB.cdf
```

iii. Move the SaveFcstDB.cdf file to the backup directory:
> cd /awips/GFESuite
> mv SaveFcstDB.cdf /data/adapt/ifps/backup/

Attachment 1: New/Merge/Replace File List for IFPS14.2

The table below tracks changes in the IFPS data files and database tables associated with the transition from IFPS13.x to IFPS14.2

The following **key** is used in the table.

Merge Attempt to preserve edited changes to this file/database table while providing any new information needed for IFPS to run in the IFPS14.2 environment. The IFP focal point should **back these files up** and **confirm that no site changes were lost during the IFPS14.2.**

Replace/Update This file/database table must be completely replaced in order for IFPS to run in the IFPS14.2 environment. The IFP focal point should **back these files up** and **be prepared to merge his/her changes into the file once IFPS14.2 has been installed.**

Delete This file/database table was removed during the IFPS14.2 install.

New New files/database tables required for IFPS to run in the IFPS14.2 environment. There is no additional work required. The IFP focal point may have to customize these files after IFPS14.2 is installed in order for a particular application to work correctly. For IFPS14.2 details and links to IFPS14.2 Release Notes and the IFPS14 User's Guide, go to:

http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

Once there, click on "14.2 Full" in the IFPS14 row of the matrix.

If a particular file/database table is not mentioned in the report below, assume that no changes are occurring during the IFPS14.0 install.

File/Database Table	Use Key Above
~ifps/Xdefaults	
Master	New

File/Database Table	Use Key Above
~ifps/crontab	
ifps-ccc.crontab	New
ifps-purge.crontab	New
ifps_mosingest_crontab.sh	New
ifps_diskmirror.crontab	New
~ifps/localbin	
ifps-ccc.env	Merge
~ifps/data	
WWA_files.txt	New
brisk_jfgdir.ccc	New
climo	New
config_bm	New
georemap_bm	New
gweight_bm	New
ifps_mrf.cfg	New
igr_bm	New
marine_checks.ccc	New
marine_mask.00	New
marine_mask.12	New
master_bm	New
slider	New
template_glf.ccc	New
ifps_ccc database	
cat_phrases_update.unl	Merge
cntrl_const_update.unl	Merge
const_descr.unl	Update
geo_groups_descr.unl	Update
mexwx_data.unl	Update

File/Database Table	Use Key Above
wwa_ccc database	
No Changes	

The following are some of the scripts in /awips/adapt/ifps/bin/hp and /awips/adapt/ifps/bin/linux that have changed with the IFPS14.2 install. If the IFP focal point has made any adjustments to these script within /awips/adapt/ifps/localbin, they will need to be **merged.**

- Under /awips/adapt/ifps/bin/hp:
    - capture_off_words.bat
    - dump_tdlfs
    - ifps-main.env
    - myschema
    - run_ccf_trans.bat
    - run_dump_tdlfs
    - run_ifps
- Under /awips/adapt/ifps/bin/linux:
    - Icwf_message
    - MOSInterp
    - ProgressBar.py
    - avg_dfms
    - avn_unldr
    - bpfextract
    - capture_off_words
    - ccf_trans
    - ccf_trans.bat
    - chg_isccfg
    - clean_svbkup.bat
    - cleanup_svbk
    - config_cat_element
    - config_cntrl_const
    - config_edit
    - config_forecasters
    - config_fwx_prods
    - config_geo
    - config_ifps
    - config_prodgroup

- config_prodinfo
- config_wildcard
- correct_ifps_permissions
- cow.bat
- cpydfms
- create_firewx
- create_marine
- createIFPSdatabase
- createIFPSdatabases
- createIFPSdatabasesYesterdate
- createNewDatabase
- cwfas
- cwfas.bat
- cwfca.bat
- cwfcs.bat
- detnwrchnges
- detupdchnges
- detupdchnges.bat
- do_imprt_grd_proc
- dumpcombos
- dumpdfms
- dumpgrids
- edit_dfms
- efpc
- eshef
- export_GFEconfig_for_svcbkup
- export_Xdef_for_svcbkup
- export_bksite_grid_data
- export_datadir_for_svcbkup
- export_dtbase
- export_files_for_svcbkup
- export_grid_cron
- export_grid_data
- export_localbin_for_svcbkup
- export_svc_backup_data
- fetch_glerl.bat
- fetch_nowglerl.bat
- fix_it.bat
- frmt
- frmt.bat
- frmt_save_update.bat
- fwf

- fwm
- fwm.bat
- fwt.bat
- fwx.bat
- fwxtab
- georemap
- gform
- grib.bat
- grid2shefb
- ics
- ics.bat
- ics.move.bat
- ics.ro.bat
- ics_fwx.bat
- ics_marine.bat
- ics_marine_move.bat
- ics_move.bat
- icwf_msg
- icwf_config_menu
- ifpServerWatcher
- ifps_config_menu
- ifps_master_menu
- igr
- import_GFEconfig_for_svcbkup
- import_Xdef_for_svcbkup
- import_datadir_for_svcbkup
- import_dtbase
- import_files_for_svcbkup
- import_grid_data
- import_localbin_for_svcbkup
- import_svc_backup_data
- import_svc_backup_data.bat
- ingest_stn_guidance.sh
- init_cwf_stn_dfms_frm_grd.bat
- init_cwf_zone_dfms_frm_grd.bat
- init_dfms_frm_grd.bat
- init_firewx_stn_dfms_frm_grd.bat
- init_glf_stn_dfms_frm_grd.bat
- init_glf_zone_dfms_frm_grd.bat
- init_marine_dfms_frm_grd.bat
- init_nsh_zone_dfms_frm_grd.bat
- init_off_stn_dfms_frm_grd.bat

- init_off_zone_dfms_frm_grd.bat
- init_public_stn_dfms_frm_grd.bat
- init_public_zone_dfms_frm_grd.bat
- initmarine
- iur
- killer
- killit
- lexwx
- load_ftable
- load_prev_row
- lx1.finishes.primary
- lx2.becomes.primary
- lx_failover
- make_default_combos
- make_default_combos.sh
- maketime
- manual_detupdchngs.bat
- marine_cwfca.bat
- mexwx
- mfp
- mk_brt
- mk_new_tables
- mk_isc_send
- modclimo
- mos_maintenance.sh
- mvf
- myschema
- new_table.sql
- phrstrat
- phrstrat.bat
- prepare_grib2
- prod_hdr
- proc_imprt_config_data
- proc_imprt_grd_data
- process_export_svc_backup_data
- process_import_svc_backup_data
- propagate_le
- qc
- rd_icwf_site
- rdfs.bat
- rdfz.bat
- retrieve_svc_backup_data

- rcmd_remap
- rm_isc_send
- run_ifps_lx
- run_lexwx
- run_stn_guidance.sh
- run_tsfp.bat
- saf
- saf.bat
- setup_tsfp_for_svcbkup
- sexwx
- shef.bat
- showProgress.py
- sirssrv
- slider
- sliderParameterSrv
- start_ifpsSvrWtchr
- start_imprt_grd_frm_bksite
- stn_ingest_controller.sh
- streamsaf.bat
- tpinj
- tpinj.bat
- tsfp
- tsfp.bat
- tsfp_alert
- tsfp_cron_wrapper.bat
- unload_grid_config
- unld_to_zns
- upd_dfms_frm_grd.bat
- upd_marine_dfms_frm_grd.bat
- update_dbdata
- update_inherit
- update_mos
- update_s2g.bat
- updt_grid.bat
- wafd
- wafd.bat
- wafp
- wafp.bat
- wccf
- wccf.bat
- wcwf.bat
- wglf.bat

- wnsh.bat
- woff.bat
- wwainj
- wwarcmd
- zfp
- zfp.bat

Attachment 2: IFPS14.2 Install Space

NOTE: If you do not have sufficient install space in any of the partitions listed below, please contact the Site Support Team (SST) at 301-713-9362x325 for assistance in identifying files that may be safely deleted.

	Host		
Partition	ds1	lx1	lx2
/awips/adapt	**300000**	-	-
/data/adapt	1300000	-	-
/data/local	1300000	-	-
/tmp	40000	-	-
/awips/GFESuite	-	1500000	1500000

The size can be checked on the HP host (ds1) with the following command:

bdf

Example:

```
ds1-nmtw{awipsusr}1: bdf
Filesystem          kbytes    used     avail    %used    Mounted on
/dev/vg00/lvol3     102400    70225    30183      70%    /
/dev/vg00/lvol1      47829    15276    27770      35%     /stand
/dev/vg00/lvol7     212992   171655    38831      82%     /var
/dev/vg00/lvol6     512000   400254   104975      79%     /usr
/dev/vg01/lvol3     151552   112443    36879      75%     /usr/local
/dev/vg01/lvol2    1179648   922094   241986      79%     /opt
/dev/vg01/lvol4     204800    63607    132419     32%     /awips/ops
/dev/vg01/lvol5     563200   385420   166837      70%     /awips/fxa
```

/dev/vg00/lvol5	99669	52325	**37377**	**58%**	**/tmp**
/dev/vg02/lvol1	307200	2031	286935	1%	/awips/dev
/dev/vg02/lvol2	102400	53498	45852	54%	/awips/hprt
/dev/vg02/lvol3	411648	129243	273898	32%	/awips/hydroapps
/dev/vg02/lvol4	890880	508843	**358486**	**59%**	**/awips/adapt**
/dev/vg02/lvol5	5427200	3834490	1511808	72%	/data/fxa
/dev/vg02/lvol6	824320	340664	455677	43%	/data/logs
/dev/vg02/lvol7	307200	19673	273893	7%	/data/x400
/dev/vg02/lvol8	471040	261638	197742	57%	/home
/dev/vg02/lvol9	307200	108867	186001	37%	/omni_shared
/dev/vg02/lvol10	286720	216130	66196	77%	/opt/HP-RT
/dev/vg02/lvol11	409600	1334	382885	0%	/data/archive_cache
/dev/vg02/lvol12	614400	1798	574380	0%	/data/archive_restore
/dev/vg03/lvol1	9216000	2293134	**6491159**	**26%**	**/data/local**
/dev/vg02/lvol14	1228800	748566	455960	62%	/data/fxa_local
/dev/vg03/lvol2	2560000	1105712	**1363577**	**45%**	**/data/adapt**

In the above example, the **/tmp** partition has less than 40000 kb available.

-or-

bdf *partition*

Example:

ds1-nmtw{awipsusr}2: bdf /awips/adapt

Filesystem	kbytes	used	avail	%used	Mounted on
/dev/vg02/lvol4	890880	508843	**358486**	**59%**	**/awips/adapt**

The size can be checked on the Linux hosts (lx1 and lx2) with the following command:

df

Example:

lx1-nmtw{awipsusr}1: df

Filesystem	1k-blocks	Used	Available	Use%	Mounted on
/dev/sda7	513880	118196	374804	24%	/
/dev/sda2	23333	13133	8996	60%	/boot
/dev/sda5	5138948	3005224	1924884	61%	/usr
/dev/sda1	2119036	2412	2030520	1%	/local
/dev/sda10	3075029	379827	2536161	14%	/awips/fxa
/dev/sda11	5050844	937481	**3851907**	**20%**	**/awips/GFESuite**
/dev/sda12	11931137	586694	10848679	6%	/data
/dev/sda8	256592	132608	110732	55%	/var
/dev/sda9	256592	463	242877	1%	/tmp
ds-nmtw:/awips/adapt	890880	508840	358488	59%	/awips/adapt
ds-nmtw:/home	471040	261392	197968	57%	/home
ds-nmtw:/data/fxa	5427200	3835216	1511120	72%	/data/fxa
ds-nmtw:/data/fxa_local					

```
                        1228800    752960    451808    63%  /data/fxa_local
ds-nmtw:/data/local     9216000   2293128   6491160    27%  /data/local
ds-nmtw:/data/adapt     2560000   1105712   1363584    45%  /data/adapt
ds-nmtw:/awips/hydroapps
                         411648    129440    273696    33%  /awips/hydroapps
```

-or-

df *partition*

Example:

```
df /awips/GFESuite
/dev/sda11              5050844    937481   3851907    20%  /awips/GFESuite
```

Attachment 3: Sample IFPS Install and Deinstall Log Files

A sample **IFPS14.2 Install Log File** is available at the following URL:

- http://www.nws.noaa.gov/mdl/icwf/IFPS14.2Full/IFPS14.2Full_sampleinstall_log.txt

A sample IFPS14.2 Deinstall Log File is available at the following URL:

- http://www.nws.noaa.gov/mdl/icwf/IFPS14.2Full/IFPS14.2Full_sampledeinstall_log.txt

Customer Support Team (CST) Contact List

- Iris.Boon@noaa.gov
  (301) 713-0224 x 145

- Carl.McCalla@noaa.gov
  (301) 713-1065 x 169

- Edward.Mandel@noaa.gov
  (301) 713-1768 x 153